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Major international documents stressing NEED for long-term sustainability of **marine environments and resources**

- UN Convention on the Law of the Sea (UNCLOS)
- UNCLOS Report ***The marine environment. Are we destroying the Oceans?***

  "the state of the world's ocean continues to deteriorate"

  - destruction of marine environments
  - pollution
  - over-exploitation of non-living and living resources

- AGENDA 21 (Rio de Janeiro, 1992)
- Johannesburg Summit Report (2002)

Other major international reference documents (Cont'n)

- ***Washington Declaration on the Protection of the Marine Environment from Land-based Activities***

- ***Global Programme of Action for the Protection of the Marine Environment from Land-based Activities*** (GPA)

- ***International Convention on Biodiversity***

GLOBAL ENVIRONMENT FACILITY (GEF)

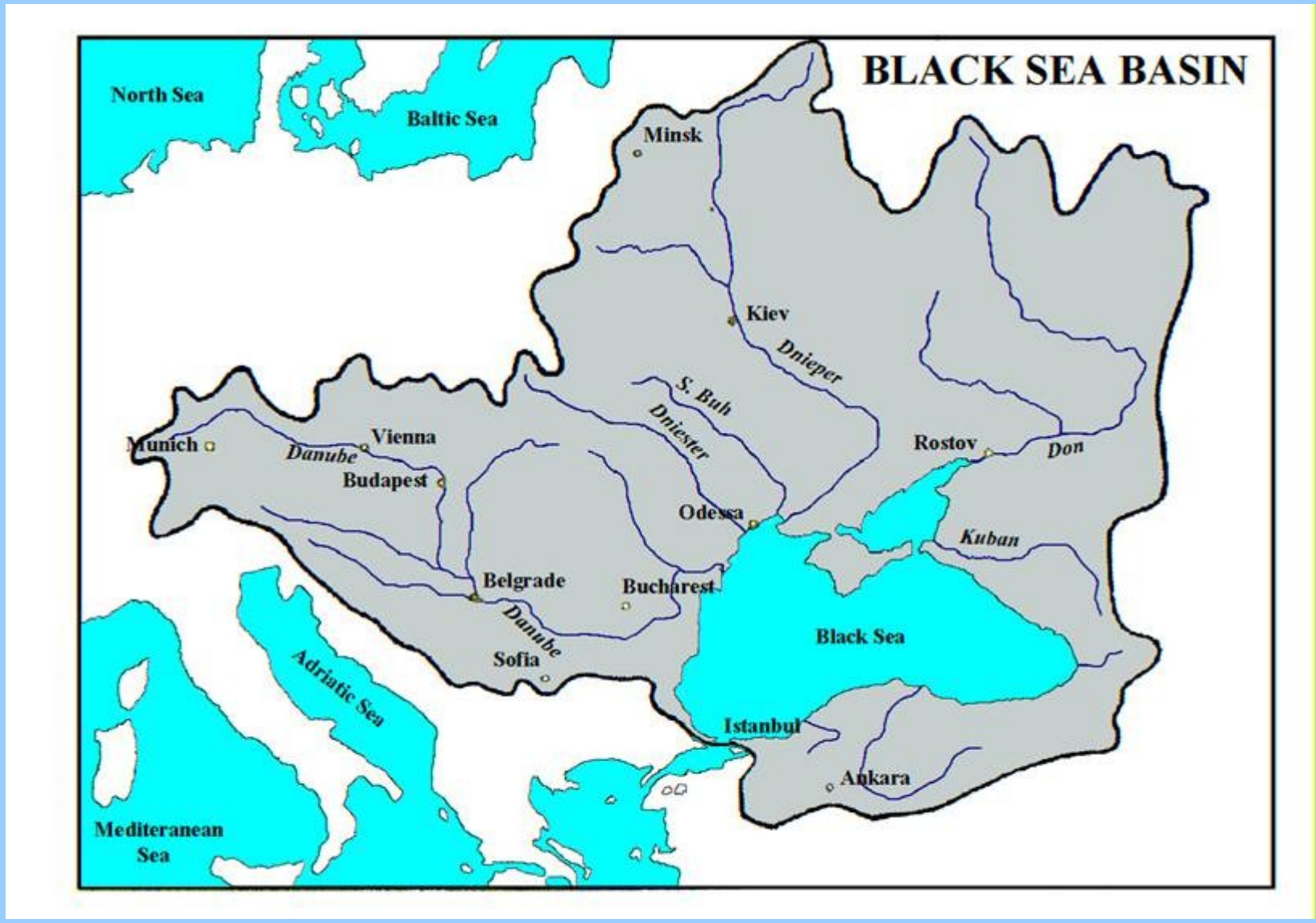
UNEP
UNDP
WORLD BANK

- establishing ecosystem-based priorities for transboundary issues

  - ***Transboundary Diagnostic Analysis*** **(TDA)**

  - ***Strategic Action Plans*** (SAP)

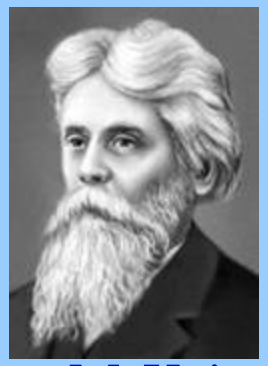
  - ***Large Marine Ecosystems*** (LMEs)


BLACK SEA BASIN
North Sea
Baltic Sea
Minsk
Kiev
Dnieper
S. Buh
Dniester
Munich
Danube
Vienna
Budapest
Odessa
Rostov
Don
Kuban
Belgrade
Bucharest
Danube
Sofia
Black Sea
Adriatic Sea
Istanbul
Ankara
Mediteranean
Sea

The Black Sea and its coastal states

THE BLACK SEA

"unicum hydrobiologicum"



Nikolay M. Knipovich
(1862 - 1939)

Moto

"The problems of the Black Sea are not so different as elsewhere, but they are more obvious, in part of isolated, contained nature of the Black Sea"

Dr. Jane Lubchenko, 1998

THE BLACK SEA

(No. 62 on LMEs map of World and Linked Watersheds)

- ***most endangered*** semi-enclosed continental sea (GEF, 1992)

- dramatic ***environmental changes*** **!**

  - coastal erosion
  - pollution / eutrophication
  - decline of biodiversity
  - loss of living resources
  - degradation of landscapes

- severe ***ecological disequilibrium*** **!**

  - chemical / oil, bacterial and micro- & biological* pollution

    * (harmful) exotic species

Constanza Port is integrated part of the established Corridors in the system of Priority Transport Corridors in Central and Eastern Europe, has thus become the trade outlet for corridors nos. 4, 7 & 9.
Corridors nos. 4 & 7 (Constantza-Rotterdam) links the Black Sea with the Western Europe, ensuring the connection with TRACECA Corridor, and then, through the multi-modal transportation, with Constantza Port and the rest of Europe.
The Port of Constantza offers good prospects for the development of the transit traffic bound for Central Europe, especially due to the completion of the Rhine - Maine - Danube Canal and to the setting up of the Free Trade Zone.
ATLANTIC OCEAN
NORTHERN SEA
IRELAND
UNITED KINGDOM
ROTTERDAM
HOLLAND
GERMANY
BELGIUM
FRANCE
SWISS
AUSTRIA
CZECH REPUBLIC
SLOVAKIA
POLAND
LATVIA
BELARUS
UKRAINE
HUNGARY
MOLDAVIA
ROMANIA
SLOVENIA
CROATIA
BOSNIA
SERBIA
BULGARIA
BLACK SEA
ADRIATIC SEA
ITALY
ALBANIA
GREECE
TURKEY
PORTUGAL
SPAIN
MEDITERRANEAN SEA
3373 nM
944 nM
MOROCCO
ALGERIA
TUNISIA
LIBIA
EGYPT
PORT SAID
CYPRUS
SYRIA
LEBANON
ISRAEL
JORDAN

BLACK SEA CONVENTIONS / DECLARATIONS / AGREEMENTS

- **Black Sea Fishery Convention** (1958)
- **Convention on the Protection for the Black Sea Against Pollution** (Bucharest Convention) (1992)
- Odessa Declaration (1993)
- **Strategic Action Plan for the Rehabilitation and Protection of the Black Sea** / Istanbul (1996)
- Ministerial Declaration / Monaco (1998)
- Declaration of Sofia Ministerial Conference (2002)

+ Convention for the Protection of the Danube River

BLACK SEA CO-OPERATION AND INSTITUTIONAL INFRASTRUCTURE

- CIESM, IOC, UNEP, UNDP, FAO, NATO, CECAF, IAEA, IMO, ESRB, IUHPS
- Commission on the Convention for the Protection of the Black Sea Against Pollution (Black Sea Commission)
- Permanent Secretariat of the Commission (Istanbul, 2000)
- GEF / Black Sea Environmental Programme (BSEP)
- Programme Implementation Unit (of BSEP)
  - Advisory Groups (6)
  - Ad Hoc Working Group on Water Framework Directive (WFD)
- Activity Centres + National Focal Points
  - (1) Development of Common Methodologies for Integrated Coastal Zone Management
  - (2) Pollution Monitoring Assessment
  - (3) Control of Pollution from Land Based Sources
  - (4) Conservation of Biological Diversity
  - (5) Environmental Aspects of Fisheries and Other Living Resources Management
  - (6) Environmental Safety Aspects of Shipping
- International Centre on Water Research in the BSEC region (Kiev / Ukraine)
- International Centre for Black Sea Studies (Athens / Greece)
- IOI – Black Sea Operational Centre (Constanta / Romania) + Affiliated Centre Ukraine (Sevastopol)
- IOC – Regional Black Sea Centre (Varna / Bulgaria)
- MEDCOAST (Ankara / Turkey)
- Balkan Environmental Association (Thessaloniki / Greece)

MORE RECENT **BLACK SEA RELATED ORGANIZATIONAL DEVELOPMENT**

- Strategic Partnership Approach (GEF / Black Sea + Danube River Basin / 2001)

  ⇒ 2 regional capacity–building projects aiming at nutrient reduction

- Partnership Investment Facility

  ⇒ new project "Control of Eutrophication, Hazardous Substances and related Measures for Rehabilitating the Black Sea Ecosystem. Phase 1" (**Black Sea Ecosystem Recovery Project**)

- EC / Communiqué

- EC / **Declaration on Water and Waterrelated Ecosystems in the Wider Danube and Black Sea (DABLAS) Task Force**

  BSC + ICPDR

- EC / *Water Framework Directive*

  ⇒ e.g. marine (transitional and coastal) water quality control, bathing waters, shellfish waters

JOINT BLACK SEA OUTPUTS / REFERENCES

- *Black Sea Environmental Programme* (BSEP) (1993)
- *Black Sea Transboundary Diagnostic Analysis* (GEF / 1997)
- *Black Sea Strategic Action Plan* (BS-SAP) (Istanbul / 1996-1997)

  + National Black Sea Action Plans
- *Black Sea Pollution Assessment* (Mee & Topping / 1998)
- *Environmental Degradation of the Black Sea: Challenges and Remedies* (Besiktepe, Ünlüata & Bologa / 1999)

PROGRESS IN BLACK SEA ECOSYSTEM RESEARCH / MONITORING / MANAGEMENT

RESEARCH (e.g.)

- CoMSBlack
- NATO (CCMS, SfS, SfP)
- EC EROS 2000 / 21
- UNESCO / IOC Black Sea Regional Centre
- IOC / GLOSS, MedGLOSS, Mussel Watch
- IAEA / RER
- EC / FP5 "Management in the Danube Basin and its Impact on the Black Sea (DANUBS)"
- F. Gable "The Black Sea: An environmental and ecological profile" (*Ocean Yearbook*, 14, 2000)
- A.S. Bologa "Recent changes in the Black Sea ecosystem" (*Ocean Yearbook*, 15, 2001)

MONITORING (e.g.)

- EC PHARE (Bulgaria, Romania)
- EC TACIS (Georgia, Russia, Ukraine)
- CIESM / Monaco (in preparation)

MANAGEMENT / PROTECTION (e.g.)

- GEF / BSEP, BSERP
- EC / ECOS OUVERTURE – QUALIPOL
- NATO / CCMS, INCOM
- UNOPS / coastal states
- GPA

CONCLUSIONS

(1) Black Sea ecosystem still in advanced state of **ecological disequilibrium**

(2) Positive achievements in **regional co-operation** by successfull joint Black Sea related research, monitoring and management projects / programmes

(3) Better knowledge of recent **changes** in Black Sea ecosystem and appropiate management of living resources

(4) Strong need for adequate policies regarding Black Sea **environmental monitoring and protection**

(5) Need for harmonization of National Black Sea **monitoring programmes** (according to presently gained / shared experience)

(6) Need for continuing regional co-operation, including **Danube riparian countries** and international expertise

(7) Need for exchange of environmental data and development of regional **databases and networks** for scientific use, decision makers and end users

THANK YOU

AND

WELCOME TO THE BLACK SEA